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1 Role-based access control on the web



February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available:  pdf(331.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...

Keywords: WWW security, cookies, digital certificates, role-based access control

2 Dancing with the devil: faculty assessment process transformed with web technology



Luis O. Hernández, Karen Wetherby, Mahmoud Pegah
October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User
services**

Publisher: ACM Press

Full text available: pdf(270.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Ringling School's Institutional Technology, in partnership with the Dean of Faculty Office has assessed, planned, and implemented a web-based paperless Course and Faculty Assessment package using home-brewed software components. At our institution, the Course and Faculty Assessment package has transformed the traditional faculty evaluation process into a pedagogically effective paperless protocol. Although the faculty assessment process is straight forward, it is a labor-intensive activity fo ...

Keywords: LDAP, MySQL, apache, course evaluation, database, development, faculty, history, java, testing, tomcat

3 Articles: An Open Web Services Architecture



Stan Kleijnen, Srikanth Raju
March 2003 **Queue**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.59 MB\)](#) [html\(24.96 KB\)](#) Additional Information: [full citation](#), [index terms](#)

4 Improving the granularity of access control for Windows 2000



Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon Chan, Mario Goertzel, Gregory Jensenworth

November 2002 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(447.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

5 Filing system interfaces to support distributed multimedia applications



Stephen Childs

September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**

Publisher: ACM Press

Full text available: pdf(754.41 KB)

Additional Information: [full citation](#), [index terms](#)

6 Migrating to role-based access control



Kami Brooks

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: pdf(1.22 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

7 Virtual enterprises: building blocks for dynamic e-business



Nitin Nayak, Kumar Bhaskaran, Raja Das

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6

Publisher: IEEE Computer Society , IEEE Computer Society , IEEE Computer Society Press

Full text available: pdf(829.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)



[Publisher Site](#)

Dynamic e-business, as envisioned by several industry analysts and corporate leaders, involves the rapid teaming of companies with both familiar and new business partners in pursuit of specific market opportunities. For realizing this new generation business model, the ability to form, operate, and disband virtual enterprises will be the single-most important requirement. These short-lived, opportunity-based organizations leverage the individual capabilities of several member companies to form v ...

Keywords: collaborative commerce, dynamic e-business, next-generation e-markets, vendor coalitions, virtual corporation, virtual enterprises

8 Access Control Models and Mechanisms: Partial outsourcing: a new paradigm for access control



Joerg Abendroth, Christian D. Jensen

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(304.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Various security models have been proposed in recent years for different purposes. Each of these aims to ease administration by introducing new types of security policies and models. This increases the complexity a system administrator is faced with. Ultimately, the resources expended in choosing amongst all of these models leads to less efficient administration. In this paper, we propose a new access control paradigm, which is already well established in virus and SPAM protection as partial dele ...

Keywords: ASCap framework, access control, active software capabilities, partial outsourcing

9 Access control: First experiences using XACML for access control in distributed systems



Markus Lorch, Seth Proctor, Rebekah Lepro, Dennis Kafura, Sumit Shah

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available: pdf(459.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#), [review](#)

Authorization systems today are increasingly complex. They span domains of administration, rely on many different authentication sources, and manage permissions that can be as complex as the system itself. Worse still, while there are many standards that define authentication mechanisms, the standards that address authorization are less well defined and tend to work only within homogeneous systems. This paper presents XACML, a standard access control language, as one component of a distributed a ...

Keywords: access control decision, access control enforcement, authorization, distributed system security, policy language, policy management

10 Integrating security policies via Container Portable Interceptors



Tom Ritter, Rudolf Schreiner, Ulrich Lang

November 2005 **Proceedings of the 4th workshop on Reflective and adaptive middleware systems ARM '05**

Publisher: ACM Press

Full text available: pdf(551.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the past, it was very common to develop middleware without consideration of security from the very beginning. To integrate security, the middleware that should be protected has to provide appropriate hooks and interfaces, and has to meet the requirements of security. In most cases it is not possible to develop a new, secure middleware from scratch. It is only possible to make minor modification to existing systems. In this paper we describe the successful integration of a CORBA Component base ...

Keywords: CORBA component model, CORBA portable interceptors, Container Portable Interceptors, policy management framework

11 A survey of peer-to-peer content distribution technologies



Stephanos Androutsellis-Theotokis, Diomidis Spinellis

December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4

Publisher: ACM Press

Full text available:  pdf(517.77 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance. Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

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1 [Applications II: Embedding JAAS in agent roles to apply local security policies](#)

Giacomo Cabri, Luca Ferrari, Letizia Leonardi

 June 2004 **Proceedings of the 3rd international symposium on Principles and practice of programming in Java PPPJ '04**

Publisher: Trinity College Dublin

 Full text available: pdf(106.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Agents are an emerging technology that grants programmers a new way to exploit distributed resources. Roles are a powerful concept that can be used to model agent interactions, allowing agents to dynamically acquire operations to make specific tasks, and enabling separation of concerns and code reusability. Nevertheless roles should be developed taking into account permissions needed for the execution of their operations. The standard Java policy file mechanism does not suffice in this scenario, ...

Keywords: Java agents, authentication, local policies, roles

2 [Role Engineering: A scenario-driven role engineering process for functional RBAC roles](#)



Gustaf Neumann, Mark Strembeck

 June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**

Publisher: ACM Press

 Full text available: pdf(171.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present a novel scenario-driven role engineering process for RBAC roles. The scenario concept is of central significance for the presented approach. Due to the strong human factor in role engineering scenarios are a good means to drive the process. We use scenarios to derive permissions and to define tasks. Our approach considers changeability issues and enables the straightforward incorporation of changes into affected models. Finally we discuss the experiences we gained by app ...

Keywords: role engineering, role-based access control, scenarios

3 [Service reasoning and monitoring: Associating assertions with business processes and monitoring their execution](#)



Alexander Lazovik, Marco Aiello, Mike Papazoglou

 November 2004 **Proceedings of the 2nd international conference on Service oriented computing**

Publisher: ACM Press

Full text available:  pdf(518.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Business processes that span organizational borders describe the interaction between multiple parties working towards a common objective. They also express business rules that govern the behavior of the process and account for expressing changes reflecting new business objectives and new market situations.

In our previous work we developed a service request language and support framework that allow users to formulate their requests against standard business processes. In this paper we ...

Keywords: management, monitoring, quality, service and AI computing, service delivery, theoretical frameworks for service representation and composition

4 Responsibilities and Rewards: Specifying Design Patterns

Neelam Soundarajan, Jason O. Hallstrom

May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**

Publisher: IEEE Computer Society

Full text available:  pdf(181.41 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)



Design patterns provide guidance to system designers on how to structure individual classes or groups of classes, as well as constraints on the interactions among these classes, to enable them to implement flexible and reliable systems. Patterns are usually described informally. While such informal descriptions are useful and even essential, if we want to be sure that designers precisely and unambiguously understand the requirements that must be met when applying a given pattern, and be able to reliably ...

5 Evaluating the portability of revision rules for incremental summary generation

Jacques Robin

June 1996 **Proceedings of the 34th annual meeting on Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available:  pdf(821.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#)
 [Publisher Site](#)

This paper presents a quantitative evaluation of the portability to the stock market domain of the revision rule hierarchy used by the system STREAK to incrementally generate newswire sports summaries. The evaluation consists of searching a test corpus of stock market reports for sentence pairs whose (semantic and syntactic) structures respectively match the triggering condition and application result of each revision rule. The results show that at least 59% of all rule classes are fully portable ...

6 Composition and interfaces within software architecture

Helgo M. Ohlenbusch, George T. Heineman

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(231.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Software Architecture community has developed a common vocabulary for describing software components and their interconnections. However, the structure of ports and roles have been too simplistic for capturing even simple examples. This paper explores the part that composition and inheritance play in defining interfaces using ports and roles. We discuss these concepts within the context of the JavaBeans component model and show how to capture the complexity inherent in the interfaces of comp ...

7 Architecting families of software systems with process algebras

Marco Bernardo, Paolo Ciancarini, Lorenzo Donatiello

October 2002

**ACM Transactions on Software Engineering and Methodology (TOSEM),**

Volume 11 Issue 4

Publisher: ACM PressFull text available: pdf(358.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Software components can give rise to several kinds of architectural mismatches when assembled together in order to form a software system. A formal description of the architecture of the resulting component-based software system may help to detect such architectural mismatches and to single out the components that cause the mismatches. In this article, we concentrate on deadlock-related architectural mismatches arising from three different causes that we identify: incompatibility between two com ...

Keywords: Architectural mismatch detection, architectural styles, process algebras, software architectures

8 Linking syntactic and semantic arguments in a dependency-based formalism ☐

Christian Korthals, Ralph Debusmann

August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 1****Publisher:** Association for Computational LinguisticsFull text available: pdf(119.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We propose a formal characterization of variation in the syntactic realization of semantic arguments, using hierarchies of syntactic relations and thematic roles, and a mechanism of lexical inheritance to obtain *valency frames* from individual *linking types*. We embed the formalization in the new lexicalized, dependency-based grammar formalism of Topological Dependency Grammar (TDG) (Duchier and Debusmann, 2001). We account for arguments that can be alternatively realized as a NP or ...

9 Book review: Subsymbolic Natural Language Processing: An Integrated Model of Scripts, Lexicon, and Memory by Risto Miikkulainen (Bradford Books, MIT Press 1993) ☐

Changsin Lee

October 1995 **ACM SIGART Bulletin**, Volume 6 Issue 4**Publisher:** ACM PressFull text available: pdf(367.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The book describes a connectionist natural language processing system that is designed to process script-based narratives: DISCERN (DIstributed SCRipt processing and Episodic memoRY Network). At first blush, scripts and a connectionist network might look like a strange association. Scripts, which have various 'slots', or 'roles,' for stereotypical events and objects involved in routine activities, are used as data structures by Schank and Abelson (1977) because of their psychological plausibilit ...

10 Access control model II: A fine-grained, controllable, user-to-user delegation method in RBAC ☐

Jacques Wainer, Akhil Kumar

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies****Publisher:** ACM PressFull text available: pdf(163.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper addresses the issues surrounding user-to-user delegation in RBAC. We show how delegations can be incorporated into the RBAC model in a simple and straightforward manner. A special feature of the model is that it allows fine-grained control over what rights a user wishes to delegate as opposed to delegation at the role level where all the rights of a role must be delegated. In addition, the model provides a rich set of controls regarding further delegations of a right, generic constrai ...

Keywords: RBAC, access control, delegation, revocation

11 3A: Organization structure based access control model



Ke-jun Sheng, Ji-qiang Liu, Xin Liu

November 2004 **Proceedings of the 3rd international conference on Information security InfoSecu '04**

Publisher: ACM Press

Full text available: [pdf\(524.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The Internet/Intranet information systems have been used by many enterprise and government department in their practical routine works today, how to design an access control model to ensure the security of their information systems become a first important problem. The aim of setting up an organization structure is to accomplish its charged tasks. There are many roles corresponding to the job duty needed in an organization structure, and a hierarchy relation exists among these roles. In order to ...

Keywords: access control, component, organization structure based, role, task, trusted

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